```
FILE 'CAPLUS' ENTERED AT 16:25:20 ON 07 JUL 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 16:25:20 ON 07 JUL 2008

FILE 'USPATFULL' ENTERED AT 16:25:20 ON 07 JUL 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 16:25:20 ON 07 JUL 2008
Copyright (c) 2008 The Thomson Corporation

=> s (desmopressin or DDAVP or (deamino(W)arginine(W)vasopressin) or adiuretin or
(apo(2A)desmopressin) or desmogalen or desmopressine)
L1        9980 (DESMOPRESSIN OR DDAVP OR (DEAMINO(W) ARGININE(W) VASOPRESSIN)
               OR ADIURETIN OR (APO(2A) DESMOPRESSIN) OR DESMOGALEN OR DESMOPRE
               SSINE)

=> s L1 (P) (water or oil or aqueous or emulsi?)
L2        1315 L1 (P) (WATER OR OIL OR AQUEOUS OR EMULSI?)

=> s L2 (P) nasal? or intranasal?
L3       76361 L2 (P) NASAL? OR INTRANASAL?

=> s L2 (P) (nasal? or intranasal?)
L4         164 L2 (P) (NASAL? OR INTRANASAL?)

=> s L4 (P) emulsi?
L5           7 L4 (P) EMULSI?

=> dup rem L5
PROCESSING COMPLETED FOR L5
L6           3 DUP REM L5 (4 DUPLICATES REMOVED)

=> s L6 NOT pd>20021010
L7           1 L6 NOT PD>20021010

=> d L7 TI AB IBIB

L7   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN
TI   Improved oral delivery of desmopressin via a novel vehicle: mucoadhesive
     submicron emulsion
AB   Desmopressin acetate (DDAVP) is used parenterally and
     intranasally in the control of several diseases.  Oral
     administration of DDAVP, while most desirable, is not practical
     presently due to low bioavailability.  The objective of the present study
     was to explore the feasibility for employing oil-in-
     water MucoAdhesive SubMicron Emulsion (MA-SME), a novel
     mucoadhesive vehicle with polymer-coated droplets, for enhanced oral
     delivery of DDAVP.  A modified pharmacopeial method, based on
     measurement of the antidiuretic activity, for the assessment of oral
     delivery of DDAVP is used in rats.  DDAVP formulated
     in two MA-SME prepns., in non-mucoadhesive SME (plain-SME), in saline and
     in other control solns. was administered orally to rats via a stomach tube
     at a dose of 0.5 units/kg.  At various times following DDAVP
     administration, water was given via a stomach tube.  Excretion
     times for 30% and 60% of the total water load were measured.
     Excretion times for DDAVP in MA-SME formulations were always
     longer (up to 2-fold) than those following DDAVP in saline.  By
```

contrast, excretion times for DDAVP in plain-SME and in non-SME Carbopol (a Mucoadhesive polymer) soln. were virtually identical to those for DDAVP in saline. Formulations of MA-SME were shown to generate substantial enhancement (up to 12-fold) of the rat oral bioavailability of DDAVP with regard to simple saline soln. of the drug. From the results it is also evident that MA-SME, but not plain-SME or non-SME Carbopol soln., is responsible for the enhancement of oral delivery of DDAVP in rats.

ACCESSION NUMBER: 1996:460920 CAPLUS
DOCUMENT NUMBER: 125:150974
ORIGINAL REFERENCE NO.: 125:28095a,28098a
TITLE: Improved oral delivery of desmopressin via a novel vehicle: mucoadhesive submicron emulsion
AUTHOR(S): Ilan, Ehud; Amselem, Shimon; Weisspapir, Michael; Schwarz, Joseph; Yogev, Ayala; Zawoznik, Eduardo; Friedman, Doron
CORPORATE SOURCE: Pharmos Ltd., Rehovot, 76326, Israel
SOURCE: Pharmaceutical Research (1996), 13(7), 1083-1087
CODEN: PHREEB; ISSN: 0724-8741
PUBLISHER: Plenum
DOCUMENT TYPE: Journal
LANGUAGE: English

=> d his

(FILE 'HOME' ENTERED AT 16:25:01 ON 07 JUL 2008)

FILE 'CAPLUS, MEDLINE, USPATFULL, BIOSIS' ENTERED AT 16:25:20 ON 07 JUL 2008

L1 9980 S (DESMOPRESSIN OR DDAVP OR (DEAMINO(W)ARGININE(W)VASOPRESSIN)
L2 1315 S L1 (P) (WATER OR OIL OR AQUEOUS OR EMULSI?)
L3 76361 S L2 (P) NASAL? OR INTRANASAL?
L4 164 S L2 (P) (NASAL? OR INTRANASAL?)
L5 7 S L4 (P) EMULSI?
L6 3 DUP REM L5 (4 DUPLICATES REMOVED)
L7 1 S L6 NOT PD>20021010